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PATENT

Docket No. 6315.N

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Benson et al.) Group Art Unit: 1631
Serial No.: 09/772,598)
Confirmation No.: 2967)
Filed: January 30, 2001)
For: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF
STAPHYLOCOCCUS AUREUS NAD SYNTHETASE

FACSIMILE TRANSMISSION TO THE PTO

Assistant Commissioner for Patents
Attn: Examiner Channing Mahatan
P.O. Box 1450
Alexandria, VA 22313-1450

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AMENDMENT AND RESPONSE

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed April 8, 2003, please amend the above-identified application as follows:

In the Claims

Please amend claims 39-43. The amended claims are provided below in clean form. Per 37 C.F.R. §1.121, amended claims are also shown in Appendix A with notations to indicate changes made (for convenience, all pending claims are provided in Appendix A).

39. (Amended) A crystal of *Staphylococcus aureus* nicotinamide adenine dinucleotide (*S. aureus* NAD) synthetase having the trigonal space group symmetry $P2_1$.

C1
40. (Amended) A crystal of *Staphylococcus aureus* nicotinamide adenine dinucleotide (*S. aureus* NAD) synthetase comprising a unit cell having dimensions of a, b, and c; wherein a is about 40Å to about 60Å, b is about 90Å to about 120Å, and c is about 80Å to about 110Å; and wherein $\alpha = \gamma = 90^\circ$ and β is about 80° to about 120°.